

PHIKS - Physical Inspection and attacks on electronics

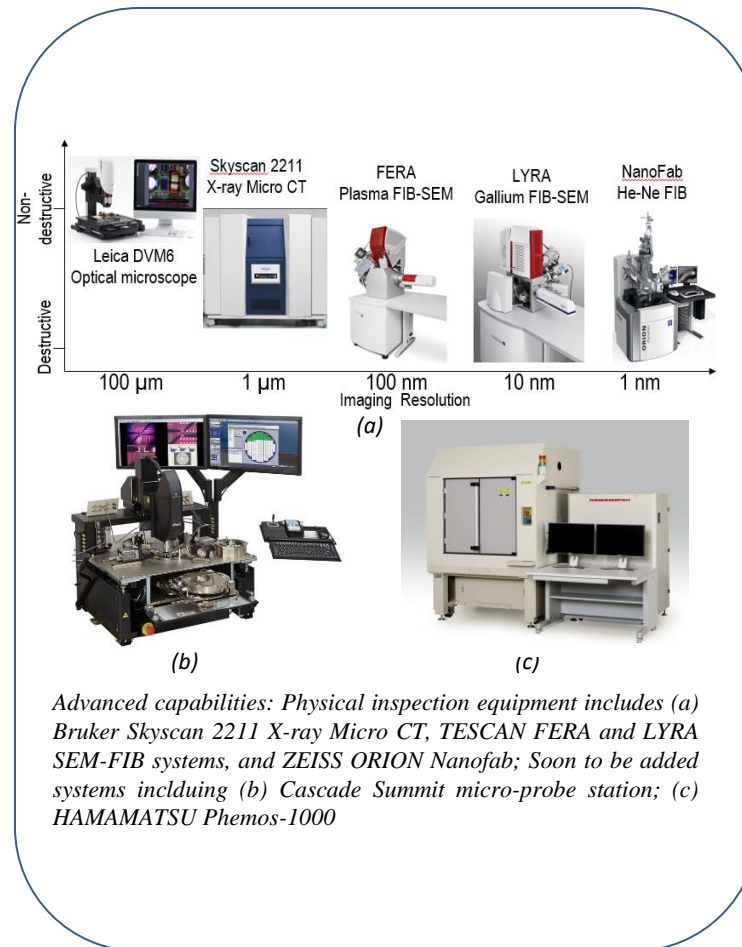
Challenge:

- Workforce development and education for future generation of engineers in hardware security
- Lack of material for physical assurance for training

Solution:

- PHIKS have collected considerable amount of material from various physical modalities for electronics hardware assurance

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Scientific Impact:

- Various physical modalities including but not limited to X-ray, SEM, PEM, THz, optical are collected from chips and printed circuit boards
- Such data are analyzed and made available for academia to use for training and education purposes in physical assurance.

Broader Impact and Broader Participation:

- Generating education course slides
- Benefit to the security, failure analysis, and testing communities.
- Benefit to the industry and connecting students with the industry advisors for the course.